

435

sian text) - Rusalimchik I. Ya. - SOVETS. MED. 1958, 1 (127-129)
Cases of Q-fever have been recognized among agricultural labourers recently
settled down on fallow land being reclaimed in Kazakhstan (Koustanai).
Mitov - Plovdiv (XVII, 50)

RUSALIMCHIK, I.Ya.

Q fever in a reclamation area. Sov.med. 22 no.1:127-129 Ja '58.
(MIRA 11:4)

1. Iz kafedry detskikh infektsionnykh bolezney (zav. - kandidat
meditsinskikh nauk dotsent T.N.Nikonova) Kazakhskogo meditsinskogo
instituta.

(Q FEVER, case reports
in area of virgin soil appropriation in Russia (Rus))

KURBATSKIY, I.L.; USTINOV, A.I.; CHERNYY, A.A.; MURZIN, V.G.; SOSNOVSKIY,
Ye.D.; PAVLENKO, N.S.; KHILYUK, A.S.; RUSALKIN, V.A.

Making castings of high strength cast iron. Lit.proizv. no.9:6-9
S '62. (MIRA 15:11)

(Iron founding)

RUSALOVICH, N.I.

Improving the URP-4 unit made by the "Etalon" Plant. Izm.tekh.
no.4:43 Ap '59. (MIRA 12:5)
(Pyrometers--Testing)

S/115/60/000/02/011/031
D002/D003

AUTHOR: Rusalovich, N.I.

TITLE: Extending the Application Field of Reference Weight-Piston Mano-Vacuummeters

PERIODICAL: Izmeritel'naya tekhnika, 1960, Nr 2, pp 16-18 (USSR)

ABSTRACT: The author proposes to substitute the reference mercury mano-vacuummeter of the II class, and the "MP-2.5" piston pressure gauge by the "MVP-2.5" reference two-piston manovacuummeter of the 0.05 class, REM VNIIK make, in order to reduce the contamination of the GKL rooms by mercury vapors. Since only two weight sets are applied to the "MVP-2.5", the substitution is impossible without completing the loads. In the editor's note it is pointed out that the author's theory is right in principle. But since not less than 12 weight sets should be provided for every device, it is impractical. In special

Card 1/2

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S115/60/000/02/011/031
D002/D003

Extending the Application Field of Reference Weight-Piston Mano-Vacuummeters

cases, the weight sets for the "MVP-2.5" can be manufactured at site, using the formulas for calculating the weights (given in table, p 17). There is 1 table.

Card 2/2

RUSALOVICH, N.I.

Widening the area of application of standard two-piston vacuum-manometers. Izv.tekh. no.2:16-18 F '60. (MIRA 13:6)
(Manometer)

SOV/115-59-7-11/33

25(1), 28(2)

AUTHOR: Rusalovich, N.I.

TITLE: The Improvement of Device MP-2.5

PERIODICAL: Izmeritel'naya tekhnika, 1959, Nr 7, p 20 (USSR)

ABSTRACT: The author suggests a modification for the MP-2.5 device, designed by V.N. Grimenitskiy, for checking two spring-loaded reference manometers. Although, this device has a high accuracy and is very useful for checking manometers, its operation is rather time-consuming. At the Minskaya gosudarstvennaya kontrol'naya laboratoriya izmeritel'noy tekhniki (Minsk State Control Laboratory for Measuring Instruments), a new and simple, but highly effective modification of the MP-2.5 was introduced, which may be built by personnel of each GKL within 3-4 hrs. This modification consists basically of applying a "Khomovskiy" pump for producing the necessary pressure of 2.5 kg/cm^2 . The author states that any other air pressure source may be used, instead, for example compressed from air mains or from containers. Using this method the productivity of the MP-2.5 device was increased by 5 times.

Card 1/1

28(5)

AUTHOR:

Rusalevich, N.I.

SOV/115-59-4-25/27

TITLE:

Improving the URP-4 Device of the Plant "Etalon"
(Ob usovershenstvovanii ustanovki URP-4 zavoda "Eta-
lon")

PERIODICAL:

Izmeritel'naya tekhnika, 1959, Nr 4, p 43 (USSR)

ABSTRACT:

The device URP-4 is used for checking radiation pyrometers RP, but it has essential deficiencies in its design. It is produced by the Leningrad plant "Etalon". Especially inconvenient is the use of a special switching panel as prescribed by the factory. The author developed some additions to this instrument for simplifying its operation. Among others, he installed a resistor panel in the device and two mercury rectifiers, as shown in a circuit diagram. An editorial note says the deficiencies explained by the author will be taken into consideration in the modernization of the URP-4 device in 1959. There is 1 circuit diagram.

Card 1/1

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446110014-9

RUSAN, V.G.; KULIKOVA, I.I.; BARANOV, K.N.

New techniques used in crushing rock crystal. Opt.-mekh.prom. 25
(MIRA 11:10)
no.4:50-51 Ap '58.
(Quartz) (Crushing machinery)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446110014-9"

KORDEMSKIY, B.A.; RUSALEV, N.V.; BRONSHTEYN, I.N., red.;
NEGRIMOVSKAYA, R.A., tekhn. red.

[The remarkable square] Udivitel'nyi kvadrat. Moskva, Gos.
izd-vo tekhniko-teoret. lit-ry, 1952. 157 p. (MIRA 16:7)
(Geometry, Plane)

TRANSLATION

SAUCIUC, Al.; SAUCIUC, J.; DANET, Rada; RUSAN, M.

Bucharest, Revista de Chimie, No 11-12, Nov-Dec 63, Vol 14,
pp 650-654

"Contribution to the Elaboration of Solvocilin (Injectable
Pyrolidinomethyl tetracycline)."

(4)

L 39127-66 T JK
ACC NR: AP6030352

SOURCE CODE: RU/0003/65/016/003/0166/0167

34

B

AUTHOR: Unterman, W. H.; Budai-Albu, Margareta; Idel, Ana; Rusan, M.

ORG: Research Services, Antibiotics Factory, Iasi (Fabrica de Antibiotice, Serviciul cercetari)

6

TITLE: Observations concerning the G-penicillin recovered from residual waters

SOURCE: Revista de chimie, v. 16, no. 3, 1965, 166-167

TOPIC TAGS: penicillin, chemical precipitation, recrystallization, paper chromatography, spectrophotometric analysis

ABSTRACT: The authors note that the penicillin G recovered by means of N,N-dibenzylethylenediamine salt from the mother liquor after precipitation of the mother product must be recrystallized in order to obtain a time-stable product free of foreign penicillins and decomposition products. To analyze the purity of the samples, they suggest spectrophotometric measurements of the absorption at 322 millimicrons as well as at 263 and 280 millimicrons in order to detect degradation products, and paper chromatography to detect foreign penicillins. Orig. art. has: 1 figure and 1 table. [Based on authors' Eng. abst.] [JPRS]

SUB CODE: 07 / SUBM DATE: none / ORIG REF: 001 / OTH REF: 003

ms
Card 1/1

0018 10 25

SAUCIUC, Al.; BUDAI, Margareta; RUSAN, M.; BOSTAN, Rodica

On the presence of heterogeneous penicillin in industrial
fermentation with two strains of *Penicillium chrysogenum*.
Studii cerc biochimie 7 no.1:105-108 '64.

1. Antibiotic Plant, Iasi.

RUSAN, Marian

Achievement of the daily increase in weight, the main objective
of socialist competition in the zootechnic field. Munca sindic 7
no.5:21-24 My '63.

1. Presedinte al comitetului sindicatului Gospodariile Agricole
de Stat - Orastie, regiunea Hunedoara.

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446110014-9

RUSAN, Remulus

Railroads. St si Teh Dus 16 no.8, 14, 16 Ag 164.

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446110014-9"

STEPANOV, A.M., inzh.; RUSAN, V.I., inzh.

Temperature field of a single-phase transformer with solid dielectric. Izv.vys.ucheb.zav.; energ. 8 no.12:64-70 D '65.

(MIRA 19:1)

1. TSentral'nyy nauchno-issledovatel'skiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva nechernozemnoy zony SSSR. Predstavlena laboratoriyye elekrosnabzheniya. Submitted October 27, 1964.

COUNTRY : Yugoslavia H-35
CATEGORY :
ABS. JOUR. : RZKhim., No. 16 1959, No. 59519
AUTHOR : Glazic, R., Vukovic, T., and Pusan, N.
INST. : Not given
TITLE : Studies on the Use of Silicones in the Leather Industry
ORIG. PUB. : Kemija u Industriji, ?, No 10, 259-266 (1956)
ABSTRACT : The authors have investigated the possibility of the utilization of American Dow Corning 1109 oil (a 50% solution of polysiloxanes in perchloroethylene) in the production of sole leather and chrome-tanned leather, suede, pigskins, glove leather, and in the protection of leather processing equipment from corrosion. Tanned hides were used in the tests. The treatment was carried out by dipping the hides for 2 min into a 15% solution of Dow Corning 1109 oil in perchloro-
CARD: 1/3
CARD: 2/3 410

COUNTRY : Yugoslavia H-55
CATEGORY :

ABS. JOUR. : AZKhim., No. 16, 1959, No. 59519

TYPE :
TITLE :

ORIG. PUB. :

REMARKS : by brushing. The penetrability of chrome-tanned top leather decreases markedly with a simultaneous reduction in gas permeability. Chrome suede on treatment with silicone solution (either by dipping or by brushing) develops coarseness. Suede leather can only be sprayed lightly with an atomizer. Spraying reduces the penetrability of the soeds and deepens the shade of black suede. The penetrability of pigskins and of glove leather likewise is decreased. The coating of leather

CARD: 273

RUSAN, Z.

TECHNOLOGY

Periodical: KEMIJA U INDUSTRIJI. Vol. 7, no. 10, Oct. 1958.

RUSAN, Z.; GLOZIC, B.; VUKOVIC, T. Testing the possibility of using silicon in the leather industry. p. 259.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3
March 1959 Unclass.

COUNTRY : YUGOSLAVIA
 CONFERENCE : Chemical Technology, Chemical Products and
 Their Applications. Leather, Fur, Gelatine.
 ABB. JOUR. : RZKhim., No. 19, 1959, No. 70138
 AUTHOR : Rusan, Z.
 INSTIT. : -
 TITLE : Production of the "Nubuk" White Leather
 ORIG. PUB. : Roza i obuka, 1958, 7, No 9, 309-333
 ABSTRACT : Reviewed are 12 production methods of the white leather - "nubuk", covered by 5 basic tanning techniques : 1) the combined chrome-aluminum; 2) the chrome tanning with bleaching syntans; 3) the formaldehyde tanning in combination with aluminum salts and syntans; 4) tanning with melamine resins; 5) the combined with chromium salts and melamine resins. Presented is the evaluation of finished leather expressed as the degree of whiteness.
 * Tanning Materials. Industrial Proteins.

CARD:

H - 183

ABB. JOUR. : RZKhim., No. 19, 1959, No. 70138

AUTHOR :

TITLE :

ORIG. PUB. :

ABSTRACT : and of aging affected by the light - artificial and sunlight. In accordance with the above evaluation, technique 3 results in the whitest leather, technique 4 gives the optimum results after aging (the only technique resulting in white leather, the yellowish hue of which, under the influence of light, turns white rather than becomes dark). The evaluation of whiteness was determined organoleptically. Leather samples tanned by all the 12 methods, in all other respects (softness,

CARD:

2/3

H - 184

YUGOSLAVIA/Chemical Technology - Chemical Products and Their
Application. Leather. Mechanical Gelatins.
Tanning Materials. Technical Albumins.

II-35

Abs Jour : Ref Zhur - Khimiya, No 17, 1958, 59689

Author : Glozic Berislav, Rusan Zvonimir, Vukovic Tomislav,
Juraic Josip, Petrunic Zvonko, Hrvoj Stjepan

Inst : -
Title : The Technology of Combined Chrome-Vegetable Tanning
of Sole Leather.

Orig Pub : Koza i obuca, 1958, 7, No 1, 1-8

Abstract : No abstract.

Card 1/1

- 112 -

YUG /2-58-10-3/24

AUTHORS:

Gložić, Berislav, Doctor of Engineering; Vuković, Tomislav;
Rusan, Zvonimir, Engineers

TITLE:

Studying the Prospects for the Application of Silicon in
the Leather Industry (Ispitivanja mogućnosti primjene sili-
kona u industriji kože)

PERIODICAL: Kemija u industriji, 1958, Nr 10, pp 259 - 266

ABSTRACT:

The article deals with the uses of silicon in leather pro-
cessing. For the tests a 15% solution of polysiloxane in
perchloro ethylene was used. The leather could be treated:
1) by immersion in the silicon solution, 2) by coating with
a plush pad on the grain side or both sides, 3) spraying
with silicon solution. The results of tests made with these
various methods on sole, cow and calf box, calf velour,
pigskin, and glove chromed leathers are given. The uses
of silicon are also discussed in the prevention of foaming
in the reduction bath, protection of metals from corrosion,
protection of concrete tanning pits, and in the polish-
ing and embossing of the leather's grain side. Tests were
also made to show: 1) action of silicon on the leather af-
ter repeated tawing, 2) effect of silicon treatment on the

Card 1/2

POP, Petre (Sacele, Brasov); RUSANDU, Radu (Bacele, Brasov)

A new technology for packing up the stators of asynchronous motors. Electrotehnica 9 no.8:269-272 Ag '61.

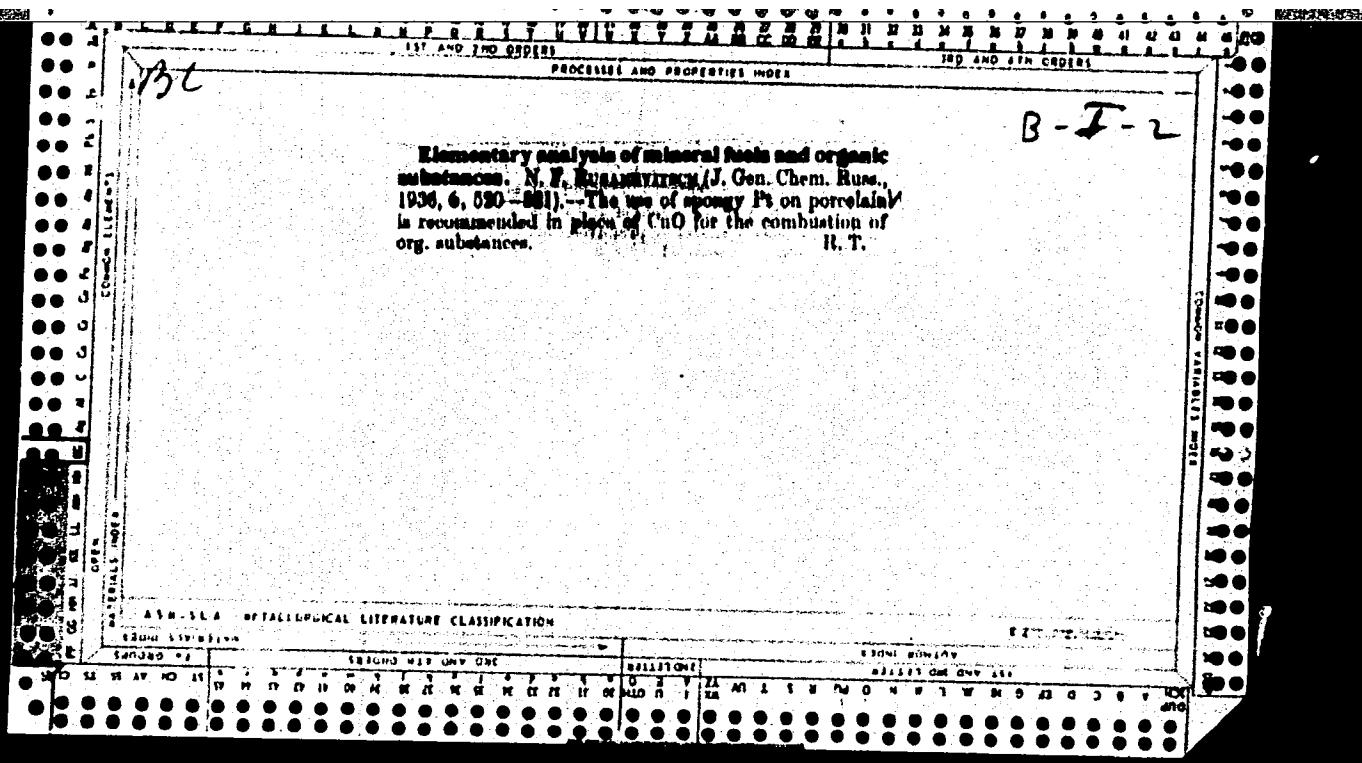
1. Seful serviciului, tehnolog sef al uzinei Electroprecizia Sacele, Brasov (for Pop). 2. Inginer tehnolog la uzina Electroprecizia Sacele, Brasov (for Rusandu).

43511
S/263/62/000/022/002/002
E073/E435

AUTHOR: Rušánek Vladimír
TITLE: Method of temperature measurement
PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk.
Izmeritel'naya tekhnika, no.22, 1962, 42,
abstract 32.22.244 P. (Czech. pat. cl.42i, 7/01,
42i, 8/60, no.99228, April 15, 1961).
TEXT: The method patented is intended for measuring in vacuo high
temperatures in high-melting-point materials such as tungsten,
tantalum, niobium, right up to their melting temperature.
It is based on the dependence of the thermionic emission current
of the heated material on its temperature. The intensity of
emission increases with increasing temperature. If the
heated body does not have a sufficiently high temperature, and this increase
the sheath in which the heated body is placed and to determine the
temperature of the body from the high-melting-point material of
If the entire object cannot be placed under vacuum, it is
Card 1/3

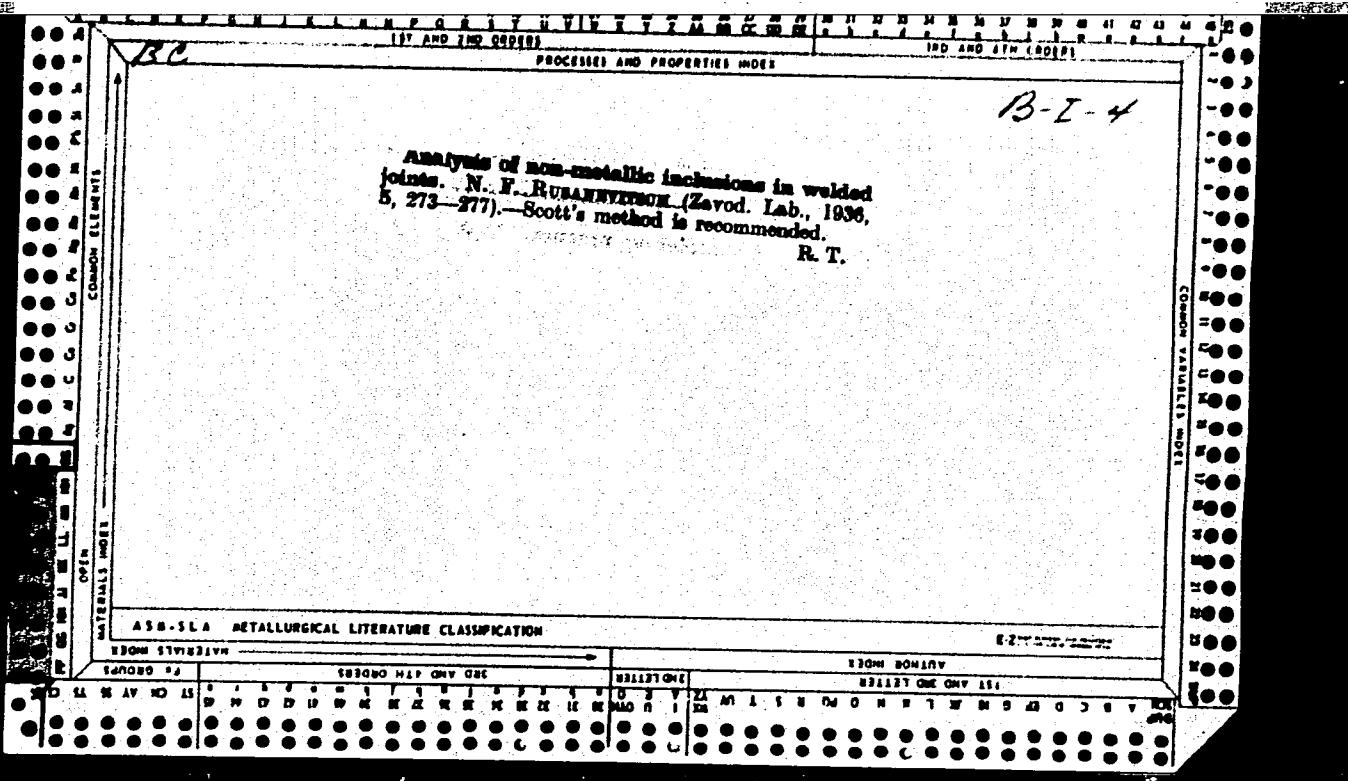
surface of
the following temperatures:

Car



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APPROVED FOR RELEASE: 08/25/2000

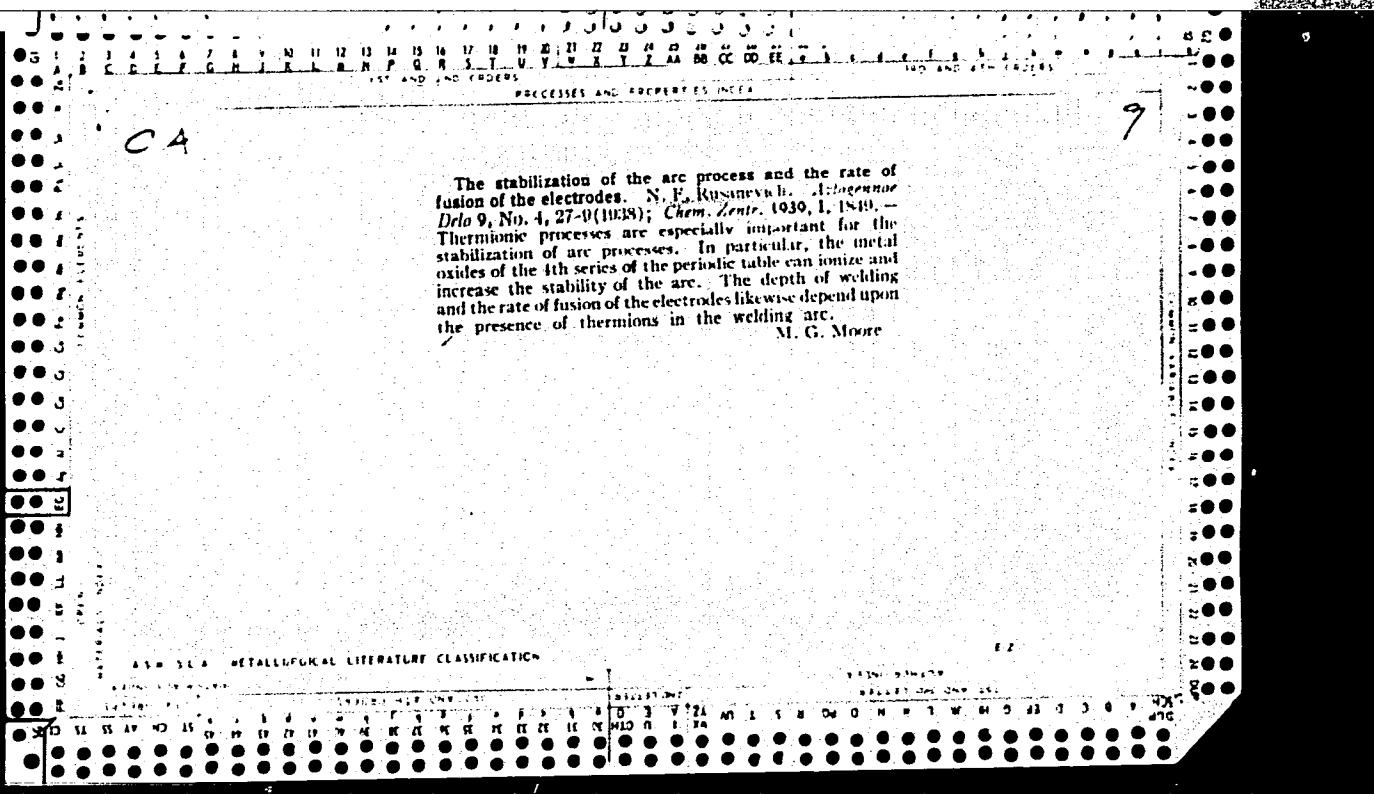
CIA-RDP86-00513R001446110014-9"

CH

Elementary analysis of mineral fuels and organic substances. N. E. Russenrich. *J. Gen. Chem. (U. S. S. R.)* 6, 620-1 (1930).—Since granular metallic oxides act as catalysts in the analysis of org. substances by combustion in an O₂ current, the usual charge of the combustion tube can be reduced with equally good results to 0.2-0.3 g. CuO for a 0.2-0.3-g. sample or to 0.4-0.6 g. for a volatile compd. A further improvement is effected by the use of CuO and Pt sponge pitch, on unglazed porcelain fragments or little tubes. Detns. by this method gave results accurate to 0.12% C and -0.03% H. One combustion tube was used for 200 detns. with the same catalyst at temps. above 700° without any damage to the tube or catalyst, which commonly occurs with the use of metallic oxides.

Chas. Blane

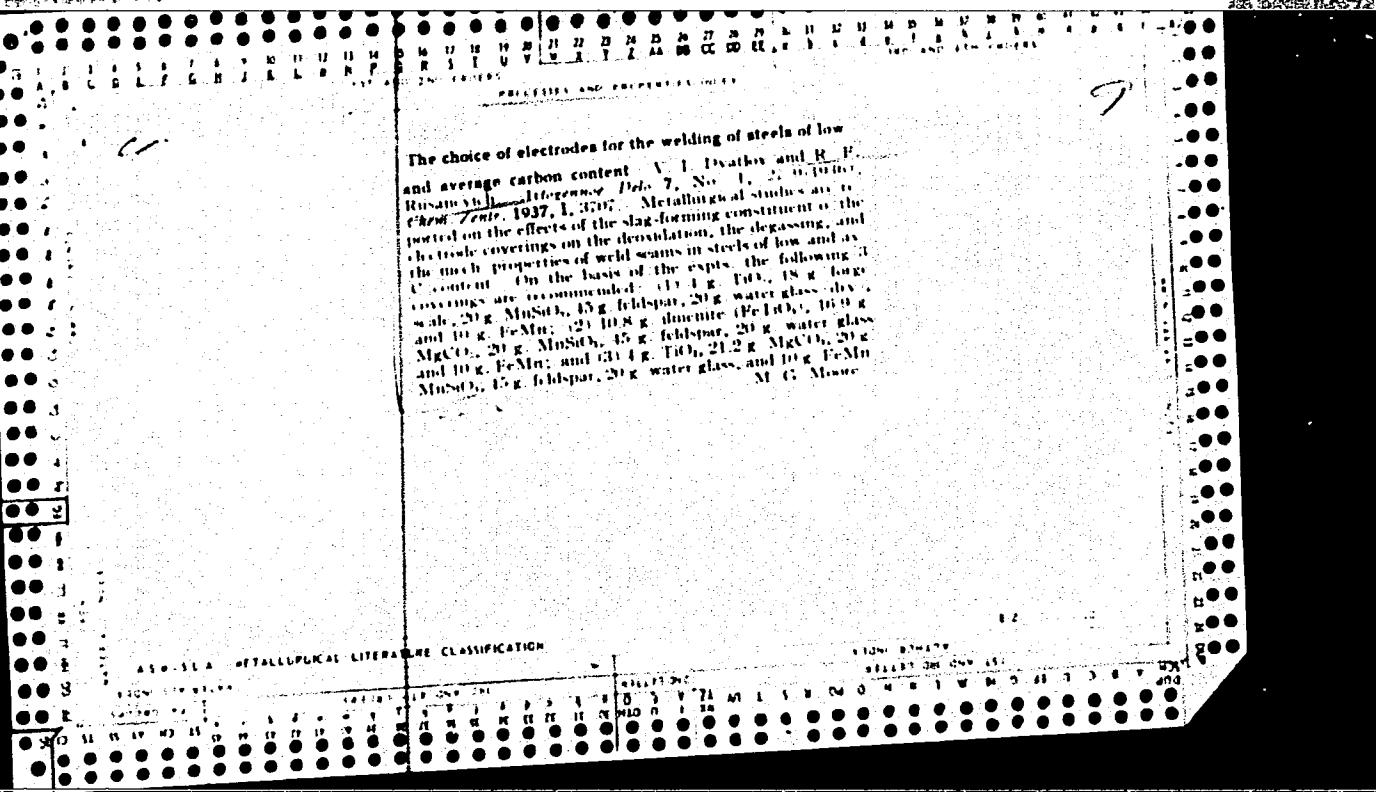
7

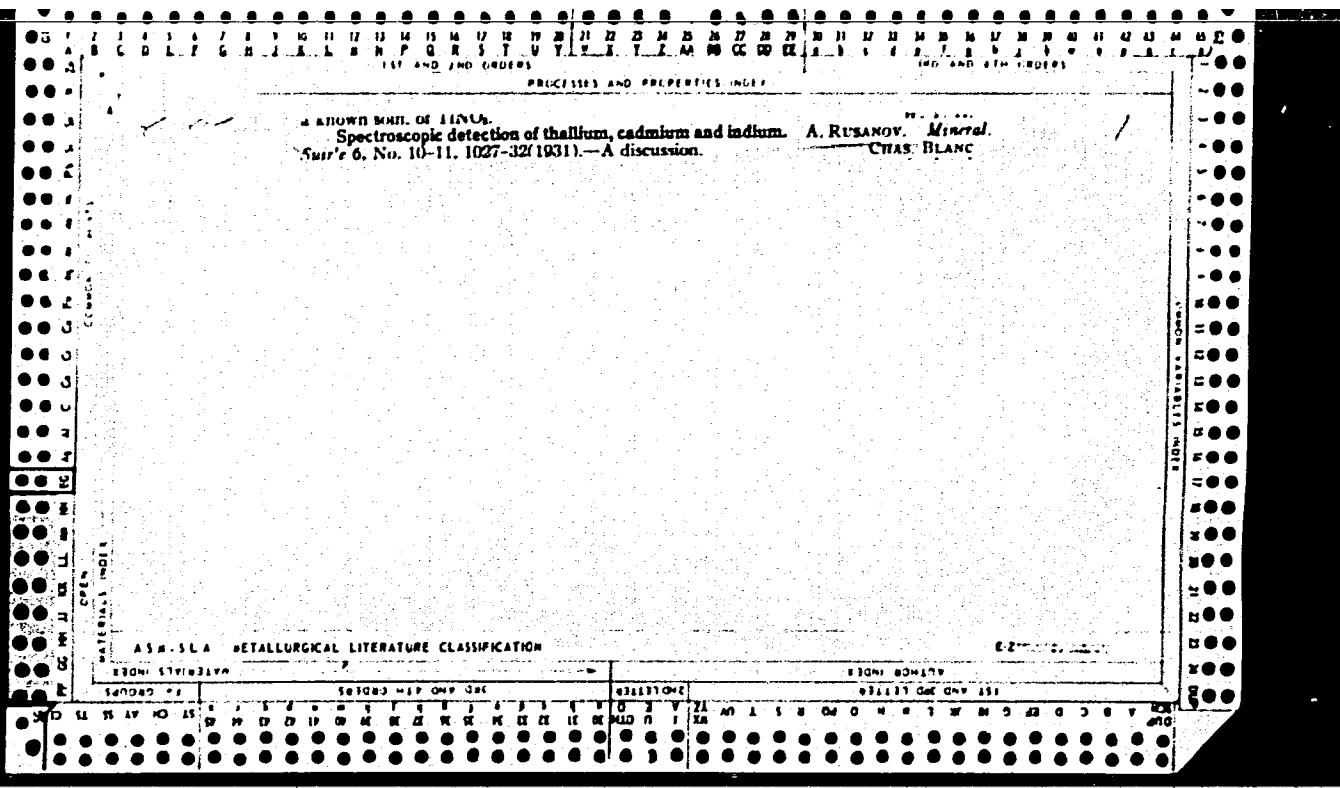


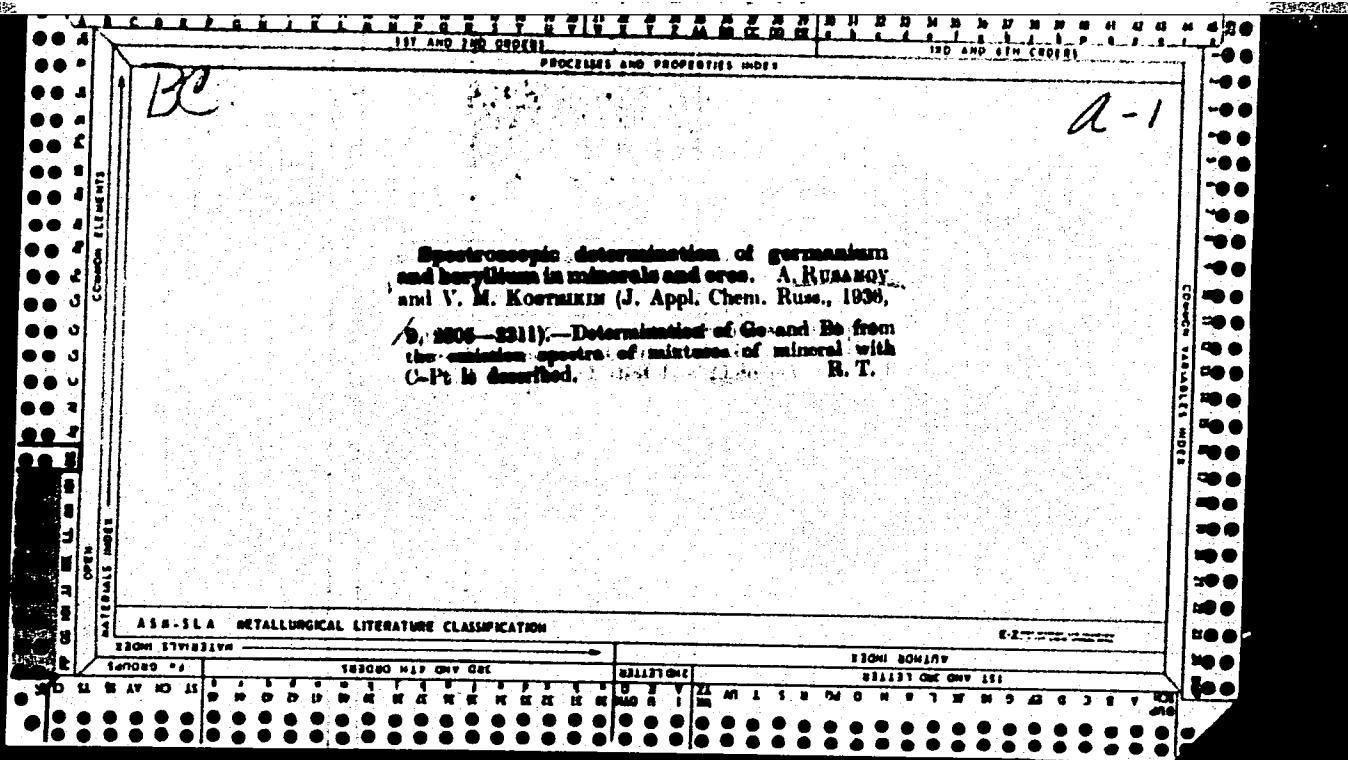
CR

Ultimate analysis of organic compounds. N. J. Blum
Transl. Russ. 41,240, Jan. 31, 1935. The customary
combustion tube is filled with refractory porous balls,
tubes, etc., which carry CuO or Cu₂O, ppd, by impreg-
nating with their salts, and heating to incandescence;
the usual plugs of copper gauge are replaced with Ni gauge.

ASA SLA METALLURGICAL LITERATURE CLASSIFICATION







RUSANOV, A.

At the fair of five continents. Vnesh. torg. 43 no.9:44-49
'63. (MIRA 16:10)

RUSANOV, A

Razryvy Uretry [ruptures of the Urethra] Moskva, Medgiz, 1953.

157 p. illus., Diagrs., Tables.

"Literatura": p. 157-(158)

N/5
644.65
.R9

RUSANOV, A.

Spektralny Analiz Rud i Mineralov (Spectrum Analysis of Ores and Minerals -
Includes set of Photostat Graphs)

259 p. 4.00

SO: Four Continent Book List, April 1954

RUSANOV, A.

Spektralnyi Analiz Rud i Mineralov (Spectrum Analysis of Ores and Minerals -
with a set of Charts)

258 p. 4.50

SO: Four Continent Book List, April 1954

RUSANOV, A.

Spektralnyi Analiz Rud i Mineralov, (Spectrum Analysis of Ores and Minerals)

258 p. and 14 Plates 3.00

SO: Four Continent Book List, April 1954

PETROVSKIY, Yu.V.; FASTOVSKIY, V.G.; RUSANOV, A.A., red.; LARIONOV,
G.Ye., tekhn. red.

[Efficient modern heat exchangers]. Sovremennye effektivnye
teploobmenniki. Moskva, Gos. energ. izd-vo, 1962. 255 p.
(Moscow. Vsesoiuznyi elektrotekhnicheskii institut. Trudy,
no.70). (MIRA 15:7)

(Heat exchangers)

VILENSKIY, Teodor Vladimirovich; RUSANOV, A.A., red.

[Design of ash collecting and slag removing systems] Ras-
chet sistem zoloulavlivanija i shlakozoloudalenija. Mo-
skva, Energiia, 1964. 198 p. (MIRA 17:11)

BOGOSLOVSKIY, Vsevolod Sergeyevich; RUSANOV, A.A., red.; YEMZHIN,
V.V., tekhn. red.

[Mechanization of the repair of boiler systems] Mekhanizatsiya
remonta kotel'nykh agregatov. Moskva, Gosenergoizdat, 1962.
222 p. (MIRA 15:9)
(Boilers--Maintenance and repair)

SIDEL'KOVSKIY, Lazar' Naumovich; SHURYGIM, Aleksey Petrovich;
RUSANOV, A.A., red.; BUL'DYAYEV, N.A., tekhn. red.

[Industrial cyclone systems] TSiklonnye energotekhnologicheskie
ustanovki. Pod obshchei red. L.N.Sidel'nikovskogo. Moskva,
Gosenergoizdat, 1962. 79 p. (MIRA 15:11)
(Smelting furnaces) (Separators (Machines))

ZABRODSKIY, Sergey Stepanovich; RUSANOV, A.A., red.; IARIONOV, G.Ye.,
tekhn. red.

[Hydrodynamics and heat transmission in a fluidized (boiling)
bed] Gidrodinamika i teploobmen v psevdozhihennom (kipia-
shchem) sloye. Moskva, Gosenergoizdat, 1963. 487 p.
(MIRA 16:8)

(Heat--Transmission) (Hydrodynamics) (Fluidization)

PETROV, Petr Alekseyevich; RUSANOV, A.A., red.; SHIROKOVA, M.M.,
tekhn.red.

[Atomic power plants] Atomnye elektrostantsii. Moskva,
Gos.energ.izd-vo, 1961. 142 p. (Biblioteka teplomekhanika,
no.9) (MIRA 15:5)

(Atomic power plants)

LACHINOV, Nikolay Vladimirovich; RUSANOV, A.A., red.

[Repair of auxiliary equipment of boiler shops in thermal electric power plants] Remont vspomogatel'nogo oborudovaniia kotel'nykh tsekhov teplovyykh elektrostantsii. Moskva, Izd-vo "Energiia," 1964. 255 p. (MIRA 17:5)

VORONESENSKIY, Anatoliy Aleksandrovich; RUSANOV, A.A., red.

[Increasing the effectiveness of thermal engineering systems]
Povyshenie effektivnosti ustrojstv promyshlennoi teplotekhniki. Moskva, Energiia, 1965. 342 p. (MIRA 18:9)

DEYANOV, Vladimir Aleksandrovich; RUSANOV, A.A., red.; BUL'DYAYEV,
N.A., tekhn. red.

[Automation, protection, and signaling in electric power
plants] Avtomatizatsiya, zashchita i signalizatsiya na
elektrostantsiakh. Moskva, Gosenergoizdat, 1963. 383 p.
(MIRA 17:2)

GUTOROV, Vasiliy Georgiyevich; RUSANOV, A.A., red.; BUL'DYAYEV, N.A.,
tekhn. red.

[Accidents and damages in boiler systems] Avarii i potrezhdenii
kotel'nykh apogatov. Moskva, Gosenergoizdat, 1962. 95 p.
(MIRA 15:12)

(Boilers)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446110014-9

RUSANOV, A. A.

"Acute Urinary Obstruction," Med. Sestra., No. 4, 1949.

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446110014-9"

1. RUSANOV, A. A., DOCENT
2. USSR (600)
4. Urethra
7. Primary suture in urethral rupture. Khirugiia no. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, JANUARY 1953. Unclassified.

RUSANOV, A. A.

Razryvny uretry [Ruptures of the urethra]. Moskva, Medfiz, 1953. 158 p.

SC: Monthly List of Russian Accessions, Vol. 6 No. 12 March 1954.

RUSANOV, A.A., professor (Leningrad)

Maintaining gastric blood supply in high intrathoracic
esophagogastroanastomosis. Khirurgia no.10:19-22 O '55. (MLRA 9:2)

(STOMACH, surg.

esophagogastro-anastomosis, maintaining gastric blood supply
technic)

(ESOPHAGUS, surg.
same)

RUSANOV, A.A., professor

"Restorative surgery for obstructed esophagus." S.S. Iudin.

Reviewed by A.A. Rusanov. Vest. khir. 77 no.1:139-141 Ja '56

(MIR 9:5)

(ESOPHAGUS--SURGERY) (IUDIN, S.S.)

RUSANOV, Aleksandr Andreyevich, professor; KISILEVSKIY, V.L., redaktor;
KULEVA, M.S., tekhnicheskiy redaktor

[Gastrectomy; a practical manual] Rezektsiya zheludka; prakticheskoe
rukovodstvo. [Leningrad] Gos. izd-vo med. lit-ry, Leningradskoe
otd-nie, 1956. 147 p. (MLRA 9:11)
(STOMACH—SURGERY)

EXCERPTA MEDICA Sec 18 Vol. 2/10 Cardio. Diseases Oct. 58

2908. *Compression of the aorta in cases of imminent heart failure during intrathoracic operations (Russian text)* RUSANOV A. A. *Vestn. Khir.* 1957, 79/9 (105—109 and 158)
Graphs 5.

The author noticed that during intrathoracic operations on the oesophagus the manual compression of the thoracic aorta was frequently followed by an increased systemic blood pressure. This was attributed to an improved cardiac function secondary to increased coronary blood flow, which ensued after compression of the aorta. In one case the aorta was compressed in a moribund patient following cardiac depression during operation on the lower oesophagus with a resulting restoration of the cardiac beat. In 3 more patients this procedure was successfully carried out during intrathoracic surgery. The author recommends this method at the time of a critical decrease of cardiac function during intrathoracic surgical procedures.

Surawicz - Burlington, Vt. (XVIII, 9)

Rusanov, A.A.

RUSANOV, A.A.. prof. (Leningrad, Moskovskiy pr., d.172, kv.310)

Compression of the aorta in cases of imminent heart failure during intrathoracic surgery [with summary in English]. Vest.khir. 79 no.9:105-109 S '57. (MIRA 10:11)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. A.A.Rusanov) Leningradskogo pediatriceskogo meditsinskogo instituta.

(THORAX, surg.

compression of aorta in lowering of cardiac activity in intrathoracic surg.)

(HEART, in various dis.

intrathoracic surg., compression of aorta in lowering of cardiac activity)

ABRAMYAN, A.Ya., prof.; ATABEKOV, D.N., prof.; VOROBTSOV, V.I., kand. med. nauk; GASPARIAN, A.M., prof.; GREBENSHCHIKOV, G.S., prof.; DZHAVAD-ZADE, M.D., kand. med. nauk; DUHAYEVSKIY, L.I., dots., prof.; LOPATKIN, N.A., dots.; POMERANTSEV, A.A., dots.; FYTEL', A.Ya., prof.; RIKHTER, G.A., prof.; RUSANOV, A.A., prof.; SMIRNOV, A.V., prof.; SYROVATKO, F.A., prof.; TSULUKIDZE, A.P., prof.; SHAPIRO, I.N., prof.; EPSHTEYN, I.M., prof.; PETROVSKIY, B.V., prof., otv. red.; BAKULEV, A.N., akademik, red.; GULAYEV, A.V., prof.; YEGOROV, B.G., prof., red.; KUPRIYANOV, P.A., prof., red.; PANKRAT'YEV, B.Ye., prof., red.; FILATOV, A.N., prof., red.; CHAKLIN, V.D., prof., red. GORELIK, S.L., red.; GABERLAND, M.I., tekhn. red.

[Multivolume manual on surgery] Mnogotomnoe rukovodstvo po khirurgii. Moskva, Gos. izd-vo med. lit-ry. Vol.9. [Surgery of the urinary and genital organs and the retroperitoneal space] Khirurgiia mochevykh i polovykh organov i zabriushin-nogo prostranstva. 1959. 630 p. (MIRA 15:4)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Petrovskiy, Yegorov, Kupriyanov).

(RETROPERITONEAL SPACE—SURGERY)
(GENITOURINARY ORGANS—SURGERY)

RUSANOV, A.A., prof.

Resection of the esophagus with construction of an intrathoracic
anastomosis between the esophagus and stomach, mobilized with
the spleen. Vest.khir. 85 no.9:55-61 S '60. (MIRA 13:11)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. A.A.
Rusanov) Leningradskogo pediatriceskogo meditsinskogo instituta.
(ESOPHAGUS—SURGERY) (STOMACH—SURGERY)

AMINEV, A.M., prof.; BEREZOV, Ye.L., prof.; BISENKOV, N.P., kand. med. nauk; BRAYTSEV, V.R., prof.; DEYNEKA, I.Ya., prof.; DYSKIN, Ye.A., kand. med. nauk KAZANSKIY, V.I., prof.; KARAVANOV, G.G., prof.; LEVIN, M.M., prof.; MAKSIMENKOV, A.N., prof.; MAYAT, V.S., prof.; NAPALKOV, P.N., prof.; ROZANOV, B.S., prof.; RUSANOV, A.A., prof.; RUSANOV, G.A., kand. med. nauk; FILATOV, A.N., prof.; CHUKHRIYENKO, D.P., prof.; SHILOVTSEV, S.P., prof.; PETROVSKIY, B.V., prof., otv. red.; MEL'NIKOV, A.V., prof., red. toma; SUVOROVA, T.A., dots., red.; MIROVORTSEVA, K.S., red.; RULEVA, M.S., tekhn. red.

[Multivolume manual on surgery] Mnogotomnoe rukovodstvo po khirurgii. Moskva, Medgiz. Vol.7. [Surgery of the abdominal wall and organs of the abdominal cavity, the stomach and intestines] Khirurgija briushnoi stenki, organov briushnoi polosti-zheludka i kishechnika. 1960. 746 p. (MIRA 15:3)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Braytsev, Petrovskiy, Mel'nikov). 2. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Maksimenkov, Filatov).
(ABDOMEN--SURGERY)

RUSANOV, A.A., prof. (Leningrad, Moskovskiy pr., 172, kv.310)

Surgical treatment of cancer of the thoracic segment of the
esophagus. Vest.khir. no.10:59-62 '61. (MIRA 14:10)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. A.A.
Rusanov) Leningradskogo pediatricheskogo meditsinskogo instituta.
(ESOPHAGUS—CANCER)

RUSANOV, Aleksandr Andreyevich; RULEVA, M.S., tekhn. red.

[Resection and transperitoneal extirpation of the stomach; a practical manual] Rezektsiia i chrezbriushinnaiia ekstirpatsiia zheludka; prakticheskoe rukovodstvo. Leningrad, Medgiz, 1961.
203 p. (MIRA 15:7)

(STOMACH—SURGERY)

NAPALKOV, Pavel Nikolayevich; SMIRNOV, Aleksandr Vasil'yevich, zasl.
deyatel' nauki prof.; SHRAYBER, Mark Grigor'yevich; Prinimali
uchastiye: ASOSKOVA, S.M.; IL'INSKAYA, O.V.; REPIN, Yu.M.; SHAFER,
I.I.; SHMUKLER, B.A.; EL'BERG, G.A.; RUSANOV, I.A., red.; LEBEDEVA,
Z.V., tekhn.red.

[Surgical diseases] Khirurgicheskie bolezni. Pod red. A.V.Smirnova.
Leningrad, Medgiz, 1961. 571 p. (MIRA 15:12)
(SURGERY, OPERATIVE)

RUSANOV, A.A., prof.

Use of Kirschner's operation in cancer of the thoracic portion
of the esophagus. Vest.khir. 89 no.11:13-18 N '62.

(MIRA 16:2)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof.
A.A. Rusanov) Leningradskogo pediatriceskogo meditsinskogo
instituta.

(ESOPHAGUS—SURGERY)

RUSANOV, A.A., prof. (Leningrad, M-105, Moskovskiy pr., d.172, kv. 310)

Advantages of anastomosis on a short loop in gastric resection
by Billroth's second method. Vest. khri. 91 no.8:38-47 Ag'63
(MIRA 17:3)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof.
A.A. Rusanov) Leningradskogo pediatriceskogo meditsinskogo
instituta.

RUSANOV, A.A., prof.

Reconstruction of the esophagus following its resection in cancer.
Vest. khir. no.10:3-8 '64.

(MIRA 19:1)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. A.A.
Rusanov) Leningradskogo pediatriceskogo meditsinskogo instituta.

RUSANOV, A.A. (Leningrad, M-105, Blagodatnaya ul. d. 34, kv. 143)

Some problems of surgical treatment of cancer of the esophagus.
(MIRA 18:8)
Vop. onk. 10 no.10:3-12 '64.

1. Iz kliniki fakul'tetskoy khirurgii (zav. - prof. A.A.Rusanov)
Leningradskogo pediatricheskogo meditsinskogo instituta.

RUSANOV, A.A. (Leningrad, K-105, ul. Blagodatnaya, d.34, kv.143)

Resection of the stomach in cancer. Vop. onk. 10 no.12:3-9 '64.
(MIRA 18:6)

1. Iz Leningradskogo pediatricheskogo instituta.

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446110014-9

RUSANOV, A.A., prof. (Leningrad)

Review of Mario Rosetti's book "Esophagus after surgery" Vest. khir.
92 no.1:133-136 Ja '64. (MIRA 17:11)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446110014-9"

RUSANOV, A.A., prof.; VASHCHENKO, K.A.

Chylothorax. Vest. khir. 93 no.8:33-40 Ag '64.

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. A.A. Rusanov) Leningradskogo pediatriceskogo meditsinskogo instituta.

(MIRA 18:7)

AERAMOVICH, A.D.[translator]; RUSANOV, A.A., red.; VORONIN, K.P.,
tekhn. red.

[Industrial electric power plants in the U.S.A.] Promyshlennye
elektrostantsii SShA. Moskva, Gos. energ. izd-vo. 1961.
270 p. Translated from the English. (MIRA 15:3)
(United States--Electric power plants)

RUSANOV, A.I.; LEVICHEV, S.A.

Thermodynamic study of the surface layers of liquid solutions. Part 1:
Composition of surface layers in binary systems. Koll. zhur. 27 no.5:
749-754 S-0 '65. (MIRA 18:10)

1. Leningradskiy universitet imeni Zhdanova.

RUSANOV, A. I., Cand Tech Sci -- (diss) "Investigation of the
sorting of seeds according to specific gravity by a dry method
with the application of radioisotopes." Mos, 1958. 16 pp. (Min
Agr USSR, Mos Inst Mechanization and Electrification of Agr), 200
copies. (KL,9-58, 119)

- 90 -

USSR / Cultivated Plants. General Problems.

M-1

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24931

Author : Rusanov, A. I.
Inst. : Moscow Institute of Mechanization and Electrification of Agriculture
Title : Classification of Seeds According to Specific Weight by the Dry Method

Orig Pub: Vestn. s.-kh. nauki, 1957, No 1, 99-110 (Res. Eng., Ger.)

Abstract: At the Moscow Institute of Mechanization and Electrification of Agriculture a study was made of the technological progress achieved in sorting seeds according to specific weight with the application of radioactive cobalt Co⁶⁰. The tests were run with seeds of wheat, corn, peas, oats, millet, buckwheat, flax and clover. The experimental

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11

RUSANOV, A. I.

AUTHOR:

Rusanov, A. I.

54-4-11/20

TITLE:

The Investigation of the Critical Curve of Binary Systems (Issledo-
vaniye kriticheskoy krivoy binarnoy sistemy).

PERIODICAL:

Vestnik Leningradskogo Universiteta Seriya Fiziki i Khimii,
1957, Vol. 22, Nr 4, pp. 12c-126 (USSR).

ABSTRACT:

In the extremum points of the critical curve the type of the critical point changes either accordingly to the temperature or accordingly to the pressure. Resulting are four cases which are examined. The specific properties of the phase transitions in the extremum points on the critical curve are pointed out.

There are 1 figure, and 6 references, 4 of which are Slavic.

SUBMITTED: May 25, 1957.

AVAILABLE: Library of Congress.

Card 1/1

54-1-9/17

AUTHOR:

Rusanov, A. I.

TITLE:

Some Problems Dealing With the Thermodynamical Theory of
Critical Phenomena in Multicomponent Systems
(Nekotoryye voprosy termodinamicheskoy teorii kriticheskikh
yavleniy v mnogokomponentnykh sistemakh)

PERIODICAL:

Vestnik Leningradskogo Universiteta Seriya Fiziki
i Khimii (Nr 1), 1958, Nr 4,

ABSTRACT:

In his introduction the author gives a survey of the historical development of the thermodynamical theory of single- and multicomponent systems and points out that transition from bi-component systems to tri-component systems is not only of quantitative but also of qualitative importance, for it represents the transition from the only possible method to a multitude of methods of modifying composition. Therefore the theoretical conclusions of the tri-component systems differ qualitatively from the theoretical theses holding good for bi-component systems. In contrast hereto transition from tri-component systems to multicomponent systems is of purely quantitative

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Some Problems Dealing With the Thermodynamical Theory of Critical Phenomena in Multicomponent Systems 54-1-9/17

character. For this reason the theoretical theses set up for tri-component systems can be applied to multicomponent systems. The following problems of the thermodynamical theory of critical phenomena in multicomponent systems are discussed in this paper: The general condition of the stability of the critical phase; the thermodynamical criteria of the type of critical points in relation to temperature, pressure, and the concentration of certain components; equations and the shape of various co-existence curves in the critical point of the ternary system. The term of pseudobinary critical phases in ternary systems is introduced and explained. The author thanks A. V. Storonkin for looking over his work and for his valuable advice.

There are 7 references, 4 of which are Slavic.

SUBMITTED: May 13, 1957

AVAILABLE: Library of Congress

1. Systems-Multiple operation-Thermodynamics-Theory

Card 2/2

AUTHOR:

Rusanov, A. I.

SOV/54-58-3-11/19

TITLE:

Investigation of the Critical State in the System Isopropyl
Alcohol - Phenol - Water (Issledovaniye kriticheskogo
sostoyaniya v sisteme izopropilovyy spirit - fenol - voda)

PERIODICAL:

Vestnik Leningradskogo universiteta. Seriya fiziki i khimii,
1958, Nr 3, pp 99-104 (USSR)

ABSTRACT:

In the present paper the author investigated the ternary system isopropyl alcohol - phenol - water which at temperatures below 74.2°C may decompose into two liquid phases. The results of measurements at 10 different temperatures are given in table 1. The mutual position of the critical isobaric curve and the isothermal-isobaric curve in the case of coexistence of two liquid phases is represented in figure 1. The isobaric surface of the phase coexistence exhibits a three-fold temperature maximum. This implies that a temperature maximum exists also on the critical isobaric line. The dependence of the partial vapor pressure of the components and of the total vapor pressure on the alcohol content in the critical phase is represented in figure 2. All curves exhibit a maximum. Data on the vapor pressure

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SOV/54-58-3-11/19

Investigation of the Critical State in the System Isopropyl Alcohol - Phenol - Water

of the pure isopropyl alcohol were taken from the papers by Larks (Ref 3), on the vapor pressure of phenol from a number of other papers (Refs 4, 5, 6). If the coefficients of activity of the critical phase components are known the amount of the excess thermodynamic Gibbs potential can be computed for the critical phase according to the formula

$$\text{f}^E = RT \sum_i x_i \ln \gamma_i$$

This potential characterizes the deviation from the ideal value of a ternary solution as a whole. Table 2 shows that the critical phase in the examined temperature range exhibits positive deviations from the ideal value ($\gamma_i > 1$; $f^E > 0$). The coefficients of activity and

f^E suffer only an insignificant variation along the critical curve. The author expresses his gratitude to A. V. Storonkin, Professor, for the supervision of the work. There are 2 figures, 2 tables, and 6 references, 1 of which is Soviet.

Card 2/3

RUSANOV, A.I.

Thermodynamic theory of critical phenomena in multicomponent systems [with summary in English]. Vest. LGU 13, no.4:84-99 '58.
(Systems (Chemistry)) (Statistical mechanics) (MIRA 11:4)

RUSANOV, A.I.

Study of the critical state in the isopropyl-alcohol-phenol-water system [with summary in English]. Vest. LGU 13 no.16:99-104 '58.
(MIRA 11:11)

(Systems (Chemistry)) (Isopropyl alcohol) (Phenol)

BULANOV, A.I., inzh.

Using radioisotopes in investigating the separation of grain. Mekh,
i elek. sots. sel'khoz. 15 no.1:17-20 '58. (MIRA 11:3)

1. Moskovskiy institut mekhanizatsii i elektrifikatsii sel'skogo
khozyaystva. (Grain--Cleaning) (Radioactive tracers)

5(3)

AUTHOR: Rusanov, A. I.

SOV/54-59-1-7/25

TITLE: Final Critical Point of a Binary System (Kriticheskaya konechnaya tochka binarnoy sistemy)

PERIODICAL: Vestnik Leningradskogo universiteta. Seriya fiziki i khimii, 1959, Nr 1, pp 62-66 (USSR)

ABSTRACT: On the basis of Van der Waals' equation (1), which represents the three-phase curve of a binary system in the final critical point

$$\left(\frac{dP}{dT}\right)_{1,2,3} = \frac{\gamma_{K1}}{v_{K1}}$$
 and the left member of which expresses only the projection of the three-phase curve of the binary system in the final critical point on the P-T plane, the author of the present paper tried to disclose and study the equations of the other projections in the final critical point. These equations represent the dependence of temperature and pressure on the phase composition. In (1) γ denotes the molar entropy, v = molar volume, and the upper index ($K1$) indicates that the derivation characterizing the three-phase equilibrium is made in the final critical point where the critical as well as the first phase coexist. In order to obtain

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Final Critical Point of a Binary System

SOV/54-59-1-7/25

the equations of the other projections in the final critical point, the expressions for the derivations

$$\left(\frac{dT}{dx_i} \right)_{1,2,3}^{(K+1)} \text{ and } \left(\frac{dP}{dx_i} \right)_{1,2,3}^{(K+1)}$$

must be found. This is done

on the basis of two differential equations according to Van der Waals by means of the variables of the first phase (x_i), wherefrom expressions for the limit transitions $\Delta x_i \rightarrow 0$ are obtained (12), (13) which represent the dependence of pressure and temperature on the composition of the first phase in the final critical point. Further, the author studied the equilibrium liquid critical phase - vapor as well as the case that the composition of the critical and noncritical phase coincide in the final critical point; $x_i^{(K)} = x_i^{(1)}$. Therefrom it resulted that the vapor curve cannot be tangent to the other curves, i.e. their derivations cannot be equal to zero in any point whatever, but it intersects the curves of the two co-existent liquid phases in the final critical point (see figure). The author thanks A. V. Storonkin for his interest in this study. There are 1 figure and 3 references, 2 of which are Soviet

SUBMITTED:

February 10, 1958

Card 2/2

5(3)

SOV/54-59-1-18/25

AUTHOR: Rusanov, A. I.

TITLE: Investigation of a Three-phase Equilibrium in the System Iso-propyl Alcohol - Phenol - Water (Issledovaniye trekhfaznogo ravnovesiya v sisteme izopropilovyy spirt - fenol - voda)

PERIODICAL: Vestnik Leningradskogo universiteta. Seriya fiziki i khimii, 1959, Nr 1, pp 132-138 (USSR)

ABSTRACT: In the system mentioned in the title, two liquid phases may form at temperatures lower than 74.2° , in equilibrium with the vapor phase. The investigation of this equilibrium, which is the subject of the present paper, required the determination of the components of the three subsisting phases, as well as the determination of the partial and total vapor pressures at various temperatures ($15, 25, 35, 45, 55, 65, 70, 72.5^{\circ}$). Respective data are shown in table 1. The most accurate data were obtained for a temperature of 25° . Figure 1 shows the solubility isotherm on the concentration diagram at different temperatures, which on the coexistence surface of two liquid phases possesses a temperature maximum = 74.2° . The activity coefficients in the liquid phases of the three components at 25° were computed. It may be

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SOV/54-59-1 8/25

Investigation of a Three-phase Equilibrium in the System Isopropyl Alcohol - Phenol - Water

seen from the analytical consideration of the isotherm form of the coexistence of two liquid phases that such an isotherm with concentration maxima and minima of all three components, as were observed at lower temperatures in the system investigated, is characteristic of all systems, consisting of two little intersoluble substances and a homogenizing component. An investigation was also carried out concerning the variation of the chemical potential and of the activity coefficient of the components in the coexisting phases in the neighborhood of the critical point. It showed that in the proximity of the critical point the activity coefficients of the 1st component vary in each of the coexisting phases in dependence on the concentration of these components according to a hyperbolic law. The author thanks Professor A. V. Storonkin for having supervised this investigation. There are 4 figures, 2 tables, and 6 references, 5 of which are Soviet.

SUBMITTED: June 10, 1958
Card 2/2

RUSAHOV, A.I., doktor khim. nauk, otd. red.; POZDYSHEVA, V.A.,
red.

[Physicochemical properties of solutions] Fiziko-khimiche-
skie svoistva rastvorov. Leningrad, 1964. 242 p.
(MIRA 18:2)

1. Leningrad. Universitet.

L 34421-66 EWT(m)/T IJP(c) WW/JW/RM
ACC NR: AP6010548

SOURCE CODE: UR/0069/65/027/006/0869/0875

AUTHOR: Rusanov, A. I.; Faktor, E. A.

ORG: Leningrad University im. A. A. Zhdanov (Leningradskiy universitet)

TITLE: Thermodynamic study of surface layers of liquid solutions. Part 2. Entropy
of surface layers in binary systems

SOURCE: Kolloidnyy zhurnal, v. 27, no. 6, 1965, 869-875

TOPIC TAGS: entropy, surface tension, thermodynamic calculation

ABSTRACT: Formulas are derived for the calculation of the composition and entropy of surface layers of binary liquid solutions. Two methods, one based on calorimetric data and the other involving the use of vapor entropy, are employed. To illustrate the derived relationships, the entropies of the surface layers in the binary system NaBr - H₂O are calculated as functions of concentration and temperature in the range of 25-50°C, and the composition of the layers are calculated for 50 and 60°C, assuming that H₂O vapor is ideal and that the temperature dependence of the surface tension is linear. Values obtained at various temperatures for the molar surface entropies in the NaBr - H₂O system by use of the two methods indicate that a slight entropy maximum may appear which becomes more appreciable as the temperature is lowered. The existence of this maximum is attributed to a rearrangement of the structure of the surface layer under the influence of ions of the salt, a process

UDC: 541.18:536.7

Card 1/2

L 34421-66

ACC NR: AP6010548

similar to that taking place in the body of the solution. Orig. art. has: 1 figure,
4 tables, and 15 formulas.

20/
SUB CODE: 07/ SUHM DATE: 04May64/ ORIG REF: 007/ OTH REF: 001

0

Card

2/2 BLG

RUSANOV, A.I.

Variance of capillary systems. Koll.zhur. 27 no.3:428-434.
(MIRA 18:12)
My-Je '65.

1. Leningradskiy gosudarstvennyy universitet imeni Zhdanova.
Submitted Sept. 30, 1963.

RUSANOV, A.I.; FAKTOR, E.A.

Thermodynamic study of the surface layers of liquid solutions.
Part 2: Entropy of the surface layers in binary systems. Koll.
zhur. 27 no.6:869-875 N-D '65. (MIRA 18:12)

1. Leningradskiy universitet imeni A.A. Zhdanova. Submitted
May 4, 1964.

ZURANOV, A.I.

Equation for the ultimate supersaturation of phases. Zhur. fiz. khim. 38 no. 12:2989-2992 D '64. (MIRA 18:2)

1. Leningradskiy gosudarstvennyy universitet imeni A.A. Zhdanova.

RUSANOV, A.I., kand.tekhn.nauk; GORDON, N.S.; VOINOV, M.I.

The SPM-200 straw stacker and FN-1,2 forager. Biul.tekh.-ekon.
inform.Gos.nauch.-issl.inst.nauch.i tekh.inform 17 no.11:72-75
N '64. (MIRA 18:3)

RUSANOV, A.I.

Equilibrium of ionic systems with account of discontinuity
surfaces. Part 1. Zhur. fiz. khim. 36 no.3:549-556 Mr '62.
(MIRA 17:8)

1. Leningradskiy universitet imeni Zhdanova.

RUSAICOV, A.I.

Thermodynamics of new phase formation processes. Usp.khim. 33
no.7:873-899 J1 '64. (MIRA 17:10)

1. Leningradskiy gosudarstvennyy universitet imeni A.A.Zhdanova.

RUSANOV, A.I.

On the Gibbs and Thomson adsorption equations. Koll. zhur. 25 no.6:742-
746 N-D '63. (MIRA 17:1)

1. Leningradskiy universitet imeni Zhddhova.

RUSANOV, A.I.

Thermodynamics of surface phenomena in a single crystal. Part 2:
Fundamental equations and the mean surface tension of the single
crystal. Vest. LGU 18 no.10:73-81 '63. (MIRA 16:8)
(Crystals—Thermodynamic properties) (Surface tension)

RUSANOV, A.I.

Thermodynamics of surface phenomena in a single crystal. Part 1.
Equilibrium form of a single crystal. Vest. LGU 17 no.16:82-88
'62. (MIRÄ 15:9)
(Crystallography)

RUSANOV, A.I.

Equilibrium of ionic systems with allowance for discontinuity
surfaces. Part 2. Curved discontinuity surfaces. Zhur. fiz.
khim. 36 no.4:690-696 Ap '62. (MIRA 15:6)

1. Leningradskiy gosudarstvennyy universitet imeni Zhdanova.
(Surface chemistry) (Ions)

32151 R
S/076/60/034/32 /113/37
B101/3208

5.4800

AUTHORS: Storonkin, A. V. and Rusanov, A. I. (Leningrad)

TITLE: Thermodynamic theory of critical phenomena in ternary systems. VI. Critical end-points of ternary systems

PERIODICAL: Zhurnal fizicheskoy khimii, v. 34, no. 8, 1960, 1677-1683

TEXT: The present paper studies the conditions for the appearance of critical end-points in ternary systems. The critical end-points are defined as points where two of the three coexistent phases become equal. A ternary triphase system having two degrees of freedom, its equilibrium state is represented by a surface. The equation of this surface passes over into that of a curve if one state parameter becomes constant, or another constant relation exists between the parameters. I) Critical end-point of the isobaric line of the triphase equilibrium in the ternary system. The equations of the projection of the isobaric line are written in variables of the second phase:

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32151 R
 S/076/60/034/008/002/014
 B101/B208

Thermodynamic theory of...

$$\left(\frac{dT}{dx_1^{(2)}} \right)_{\text{состн. } P} = \frac{\begin{vmatrix} x_1^{(1)} - x_1^{(2)}, & x_2^{(1)} - x_2^{(2)} \\ x_1^{(3)} - x_1^{(2)}, & x_2^{(3)} - x_2^{(2)} \end{vmatrix}}{\begin{vmatrix} \varphi_2^{(21)}, & \eta_{21} \\ \varphi_2^{(23)}, & \eta_{23} \end{vmatrix}} U_2^{(2)}, \quad (1)$$

$$\left(\frac{dT}{dx_2^{(2)}} \right)_{\text{состн. } P} = - \frac{\begin{vmatrix} x_1^{(1)} - x_1^{(2)}, & x_2^{(1)} - x_2^{(2)} \\ x_1^{(3)} - x_1^{(2)}, & x_2^{(3)} - x_2^{(2)} \end{vmatrix}}{\begin{vmatrix} \varphi_1^{(21)}, & \eta_{21} \\ \varphi_1^{(23)}, & \eta_{23} \end{vmatrix}} U_2^{(3)}, \quad (2)$$

$$\left(\frac{dx_2^{(2)}}{dx_1^{(2)}} \right)_{\text{состн. } P} = - \frac{\begin{vmatrix} \varphi_1^{(21)}, & \eta_{21} \\ \varphi_1^{(23)}, & \eta_{23} \end{vmatrix}}{\begin{vmatrix} \varphi_3^{(21)}, & \eta_{21} \\ \varphi_3^{(23)}, & \eta_{23} \end{vmatrix}}, \quad (3)$$

where

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